

TABLE 2

CHRONIC TOXICITY OF CHLORIDE
TO AQUATIC ANIMALS

(From U.S. EPA Publication 440588001,
Ambient Water Quality Criteria for Chloride)

Table 2. Chronic Toxicity of Chloride to Aquatic Animals

Species	Test ^a	Chemical	Hardness (mg/L as CaCO ₃)	Limits (mg/L) ^b	Chronic Value (mg/L)	Reference
<u>FRESHWATER SPECIES</u>						
Cladocera, <u>Daphnia pulex</u>	LC	Sodium chloride	100	314-441	372.1	Birge et al. 1985
Rainbow trout, <u>Salmo gairdneri</u>	ELS	Sodium chloride	46	643-1,324	922.7	Spehar 1987
Fathead minnow, <u>Pimephales promelas</u>	ELS	Sodium chloride	100	352-533	433.1	Birge et al. 1985

^a LC = life-cycle or partial life-cycle, ELS = early life-stage.^b Measured concentrations of chloride.Acute-Chronic Ratio

Species	Hardness (mg/L as CaCO ₃)	Acute Value (mg/l)	Chronic Value (mg/l)	Ratio
Cladocera, <u>Daphnia pulex</u>	100	1,470	372.1	3.951
Rainbow trout, <u>Salmo gairdneri</u>	46	6,743	922.7	7.308
Fathead minnow, <u>Pimephales promelas</u>	100	6,570	433.1	15.17